

## ABSTRACT

A fuel fractionation method which can suitably control a state of a fuel at a time of fractionating the fuel in an internal combustion engine, which comprises the steps of applying an operation for promoting a fractionation of a fuel of an engine to a fractionation passage while making the fuel flow to the fractionation passage, thereby fractionating the fuel into a gas phase fuel and a liquid phase fuel within the fractionation passage, conducting the fractionated gas phase fuel and the fractionated liquid phase fuel to a branch point of the fractionation passage, and separating the gas phase fuel and the liquid phase fuel to a gas phase passage and a liquid phase passage, respectively due to gravity.